

Note:

No pile splicing to be allowed on any portion of pile that is to remain exposed in completed structure.

FHWA APPROVAL

DATE: 8-24-76

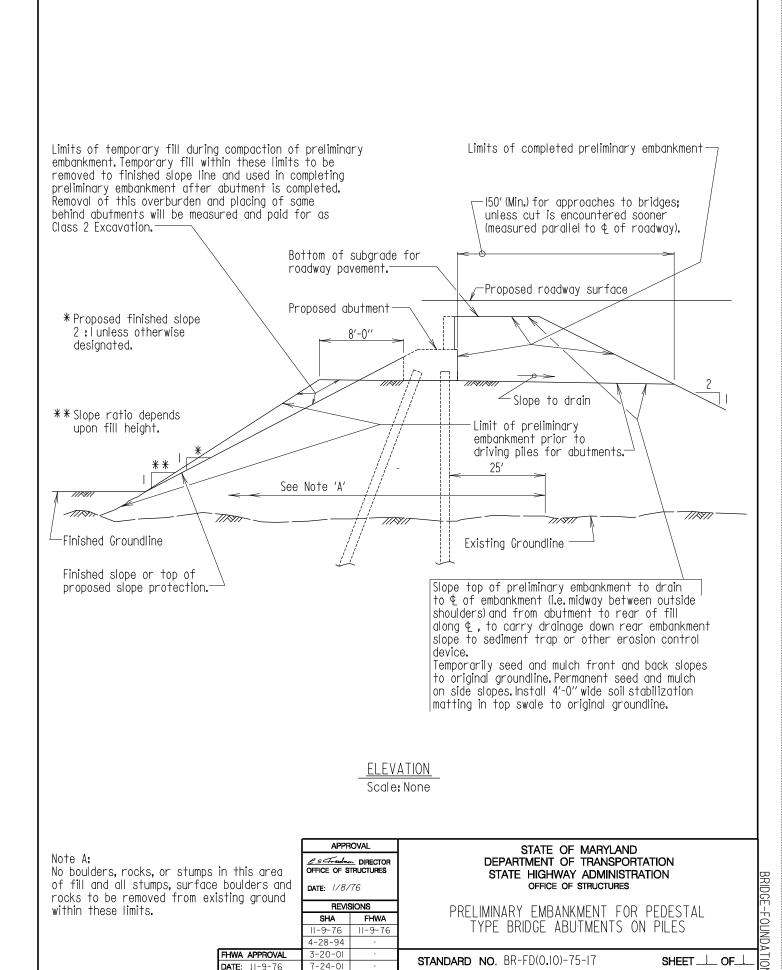
APPROVAL
OFFICE OF STRUCTURES
DATE: 6/20/75

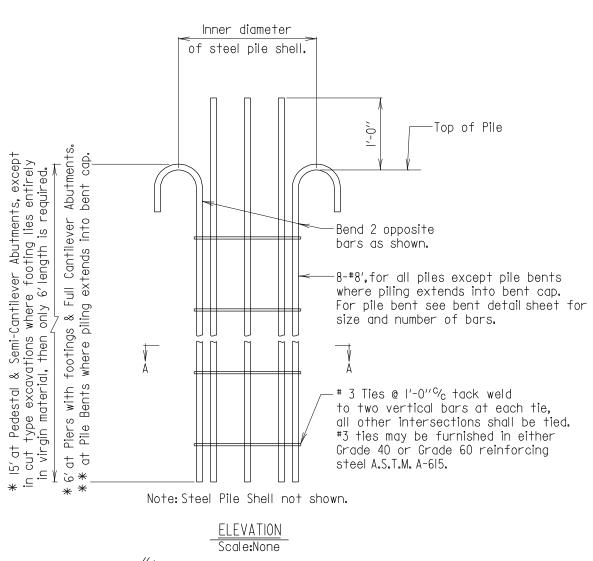
REVISIONS		
SHA	FHWA	

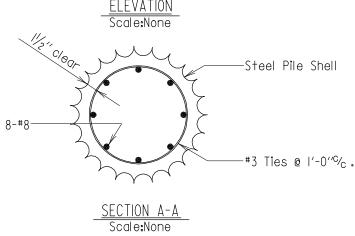
STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF STRUCTURES

SPLICE FOR CAST-IN-PLACE CONCRETE PILE SHELL

STANDARD NO. BR-FD(0.02)-75-16







Note:

I.* Unless otherwise indicated on substructure contract drawing.

2.**Full height of pile above finished groundline plus 6' unless otherwise indicated on substructure contract drawings.

3. Unless otherwise indicated on other Contract Plans or in the Special Provisions the Steel Pile Shell shall be #5 gauge. This will apply to pile shells with or without deformations.

4.Cage required for all pile shells with or without deformations.

[FHWA APPROVAL]

DATE: 12-19-79

APPROVAL		
OFFICE OF S	™ DIRECTOR TRUCTURES	
DATE: 8/9/	79	
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SHA	FHWA	

REVISIONS
SHA FHWA
6-15-84 II-8-84
6-16-92 ...
10-27-92

1-22-01

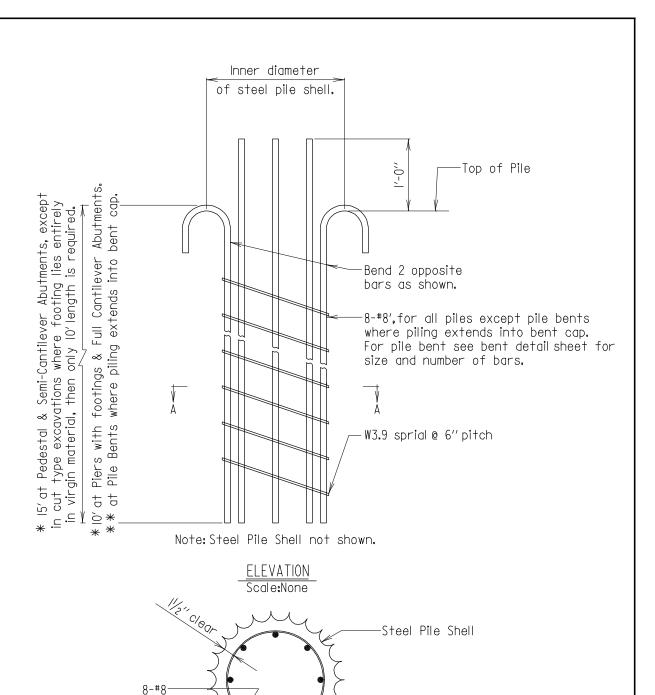
STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF STRUCTURES

DETAILS FOR CAST-IN-PLACE CONCRETE PILES

STANDARD NO. BR-FD(0.03)-79-81

SHEET ____ OF__

BRIDGE-FOUNDATI



Note:

I.* Unless otherwise indicated on substructure contract drawing.

2.**Full height of pile above finished groundline plus 10' unless otherwise indicated on substructure contract drawings.

3. Unless otherwise indicated on other Contract Plans or in the Special Provisions the Steel Pile Shell shall be a minimum #5 gauge. This will apply to pile shells with or without deformations.

4. Cage required for all pile shells with or without deformations.

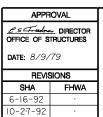
5. All materials and dimensions shown are minimums. Engineer shall design.

FHWA APPROVAL

DATE: 12-19-79

SECTION A-A Scale:None

FOR OFFICE USE ONLY



1-22-01

10-9-07

STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF STRUCTURES

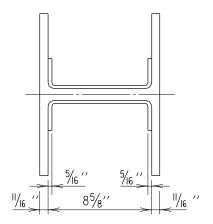
W3.9 sprial @ 6" pitch

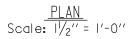


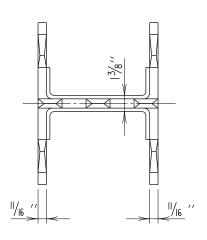
DETAILS FOR CAST-IN-PLACE CONCRETE PILES

SHEET ____ OF_

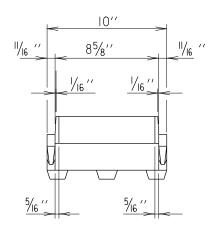
STANDARD NO. BR-FD(0.03)-79-8I(L)







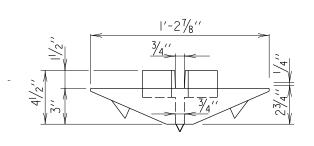
Scale: $\frac{PLAN}{1/2''} = 1'-0''$



Scale: $1\frac{\text{ELEVATION}}{2^{\prime\prime}} = 1^{\prime} - 0^{\prime\prime}$

FHWA APPROVAL

DATE: 1-16-80



Scale: $1\frac{\text{SIDE VIEW}}{2^{\prime\prime}}$

Size of Pile	Size of 45 Bevel	Size of Groove Weld
10 × 42	1/4	5/16
10 × 57	1/4	5/16

I.Material: Cast Steel A.S.T.M. A27 65/35. All fillets 3/8". 2.Point to be welded to pile with a

continuous single bevelgroove weld along outside face of flange. Exterior face of flange to be flame cut beveled at 45,° prior to welding.

3.For	each	shipm	nent	of	point	īS	D
fou	ndry (certif	icat	e v	erify	ing	
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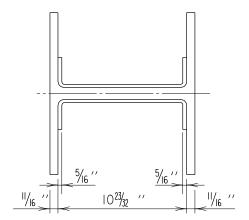
APPROVAL
C.S Freedow DIRECTOR OFFICE OF STRUCTURES
DATE: 10/17/79
REVISIONS

REVISIONS			
SHA FHWA			
12-13-79	1-29-80		

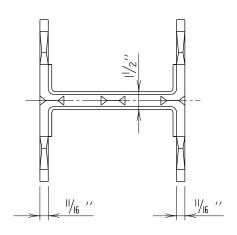
STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF STRUCTURES

TOOTHED PILE POINT FOR 10" H PILE

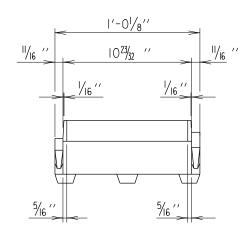
STANDARD NO. BR-FD(0.07)-79-87



Scale: $\frac{PLAN}{1/2''} = 1'-0''$



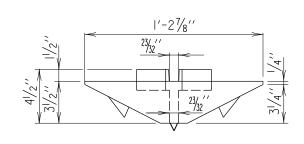
Scale: $\frac{PLAN}{1/2''} = 1'-0''$



Scale: $1\frac{\text{ELEVATION}}{2^{\prime\prime}} = 1^{\prime} - 0^{\prime\prime}$

FHWA APPROVAL

DATE: 1-16-80



Scale: $1\frac{\text{SIDE VIEW}}{2^{\prime\prime}}$

Size of Pile	Size of 45 Bevel	Size of Groove Weld
12 × 53	1/4	5/16
12 × 74	5/16	5/16

Note:

I.Material: Cast Steel A27 65/35. All fillets %". 2.Point to be welded to pile with a

continuous single bevel groove weld along outside face of flange. Exterior face of flange to be flame cut beveled at 45,° prior to welding.

 For each shipment of points a foundry certificate verifying material meets the Specifications is required.

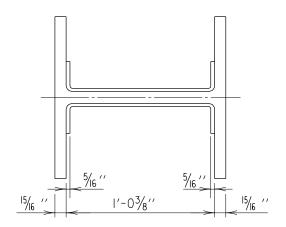
APPROVAL
C.S. Freedom DIRECTOR OFFICE OF STRUCTURES
DATE: 10/17/79
REVISIONS

FHWA SHA 12-13-79 1-29-80 4-28-94

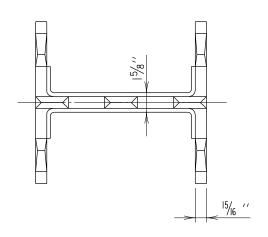
STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF STRUCTURES

TOOTHED PILE POINT FOR 12" H PILE

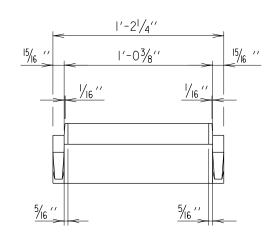
STANDARD NO. BR-FD(0.08)-79-88



<u>PLAN</u> Scale: |¹/₂" = 1'-0"



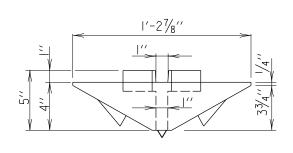
<u>PLAN</u> Scale: I¹/₂" = 1'-0"



Scale: $1\frac{\text{ELEVATION}}{2^{\prime\prime}} = 1^{\prime} - 0^{\prime\prime}$

FHWA APPROVAL

DATE: 1-16-80



Scale: $1\frac{\text{SIDE VIEW}}{2^{\prime\prime}}$

Size of Pile	Size of 45 Bevel	Size of Groove Weld
14 × 73	1/4	5/16
14 × 89	5/16	5/16
14 × 102		
14 × 117		7/16

I.Material: Cast Steel A.S.T.M. A27 65/35. All fillets %". 2.Point to be welded to pile with a

continuous single bevel groove weld along outside face of flange. Exterior face of flange to be flame cut beveled at 45,° prior to weldina.

3.For each shipment of points a
foundry certificate verifying
material meets the Specifications
is required.

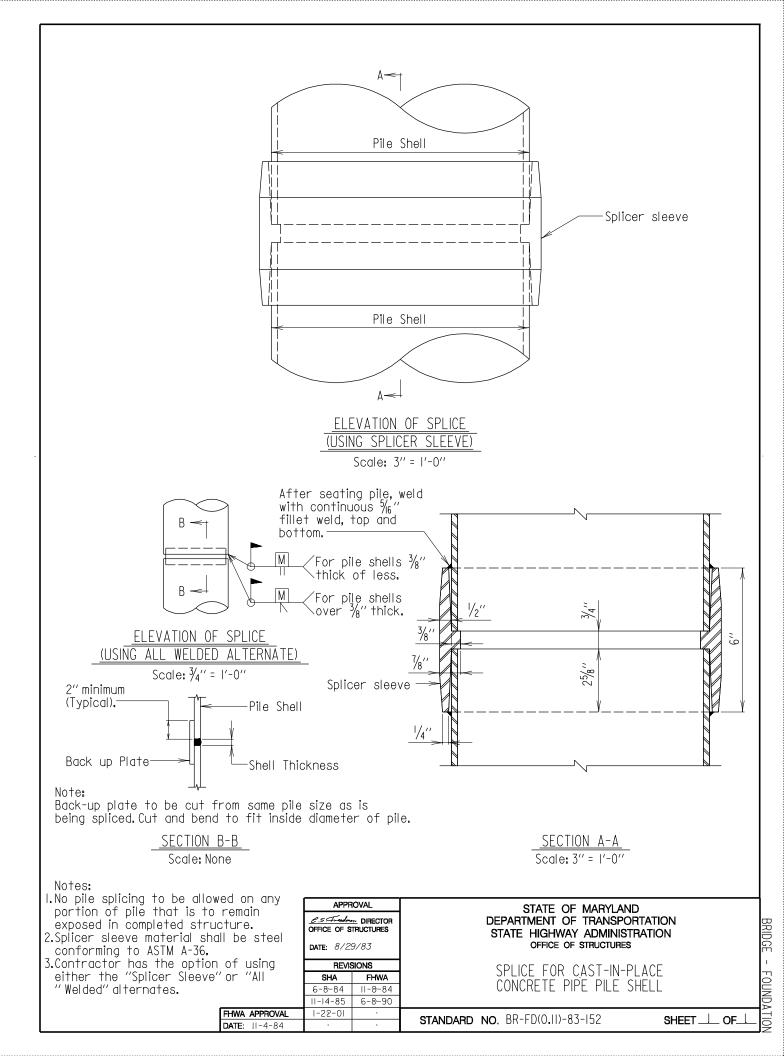
APPROVAL
C.S Freedom DIRECTOR OFFICE OF STRUCTURES
DATE: 11/14/79
REVISIONS

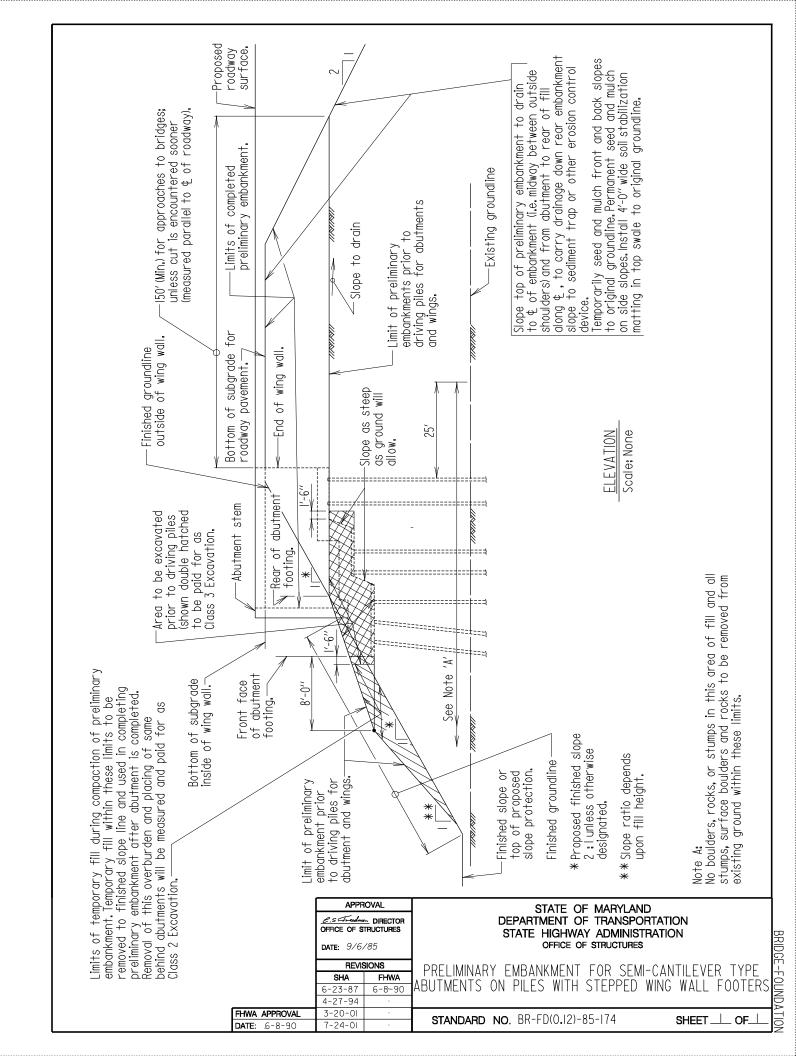
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12-13-79	1-29-80			

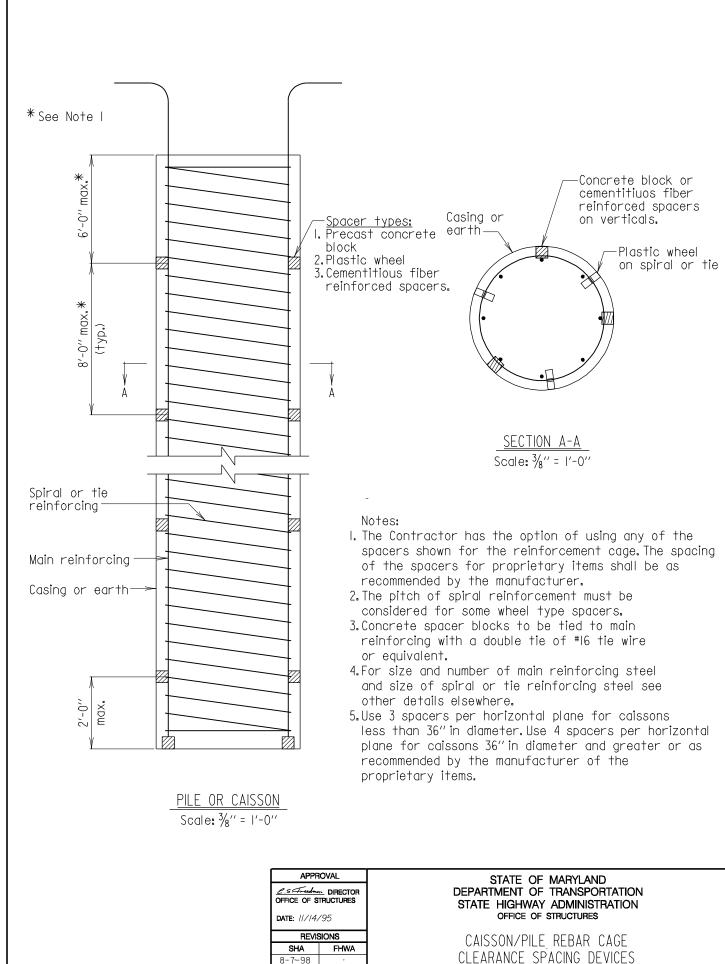
STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF STRUCTURES

TOOTHED PILE POINT FOR 14" H PILE

STANDARD NO. BR-FD(0.09)-79-89



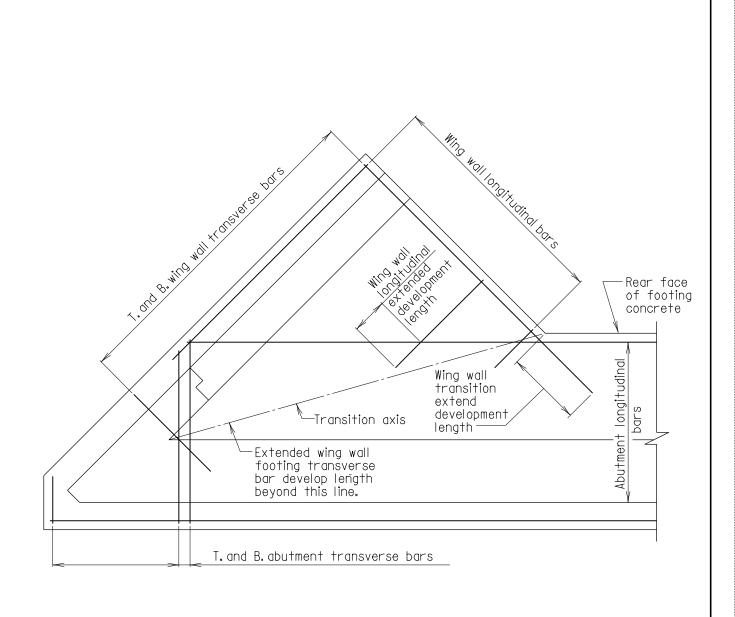




8-7-98

STANDARD NO. BR-FD(0.13)-95-310

FHWA APPROVAL



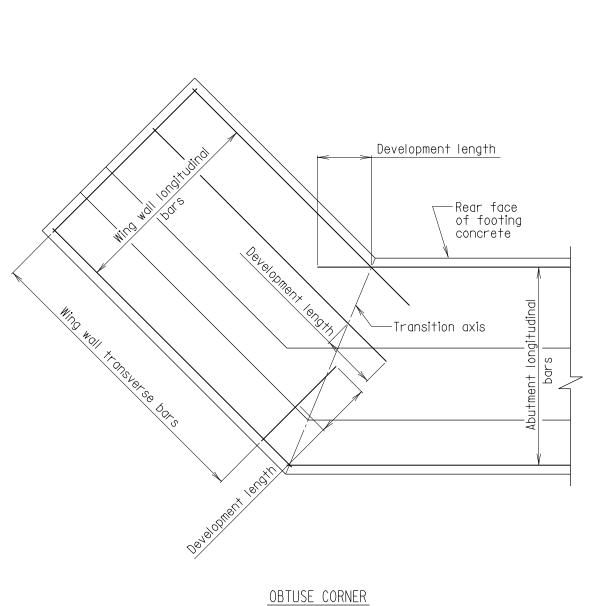
ACUTE CORNER

Scale: 3/8" = 1'-0"

FOR OFFICE USE ONLY

	DATE: 11/17/97		STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF STRUCTURES	
	REVI SHA	SIONS FHWA	SKEWED ABUTMENT AND WING FOOTING INTERSECTION	
FHWA APPROVAL DATE:			STANDARD NO. BR-FD(0,14)-97-322	SHEET OF_2

BRIDGE - FOUNDATION



Scale: 3/8" = 1'-0"

FOR OFFICE USE ONLY

APPROVAL L.S. Treadman. DIRECTOR OFFICE OF STRUCTURES DATE: 11/17/97		STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF STRUCTURES	
REVIS SHA	SIONS	SKEWED ABUTMENT AND WING WALL	
		FOOTING INTERSECTION	
		STANDARD NO. BR-FD(0,14)-97-322	SHEET 2 OF 2
	C.5 Treedmoorphice OF S DATE: ///// REVI	DIFFICE OF STRUCTURES DATE: 11/17/97 REVISIONS	DIRECTOR OFFICE OF STRUCTURES DATE: 11/17/97 REVISIONS SHA FHWA SHA FHWA THE OF MIARTLAND DEPARTMENT OF TRANSPORTATION OFFICE OF STRUCTURES SKEWED ABUTMENT AND WING FOOTING INTERSECTION